Safe Drinking Water Parameters Request Sheet

Organics

The compounds regulated under the Safe Drinking Water Act (SDWA) are listed on one page due to the extensive lists and numerous methodologies involved. Use the Other space to write in any parameter not listed. Also, if chlorinated water is sampled, bottles must be preserved in a non-routine manner. Please notify the lab and obtain properly preserved bottles on any drinking water sampling event.

Routine SDWA Extractables

The following groups of parameter or individual compounds are easily analyzed and require few extractions.

- **Cl Pesticides/PCBs – 508;** Holding time: 7 days to extract.
- **N/P Pesticides – 507;** Holding time: 7 days to extract.
- **Cl Acids – 515.2;** Holding time: 7 days to extract.
- **PAH's Method 550** - includes naphthalene and benzo(a)pyrene. (This group should have been designated in a gray area with bold print on the Safe Drinking Water Parameters Request Sheet but was not. In addition, naphthalene should be included in the volatile list for lowest detection limits. These corrections will be made on the next printing of the forms.) Holding time: 7 days to extract; 30 days to analyze.
- **Adipate, Phthalates – 525**

To collect for the above compounds:

Water: One 1-gallon amber bottle, teflon-lined cap.

Non-Routine SDWA Extractables

The following SDWA extractable parameters are difficult to analyze and require many extractions and various bottle preparations. If you need to collect for these compounds, call the laboratory before collection. Bottles for these analyses are not kept in stock. The sample containers must be fresh to eliminate sample contamination and ensure proper preservation. Also, some parameters require special collection and handling techniques.

- **Carbamates - 531.1**
- **Glyphosate - Method 547**
- **Endothall - Method 548.1**
- **Dalapon - Method 552.1**
- **Diquat – 549.1**

SDWA Volatile Parameters

The following group or parameters are volatile compounds and are collected in four 40-ml amber vials, teflon-lined, septa cap, **no headspace**.

- **SDWA Volatiles - 524.2;** Holding time: 14 days

Inorganics

Definitions and Requirements for Testing

The primary and secondary drinking water parameters are listed in **the** "SAFE DRINKING WATER PARAMETER" form, page **VI - 21**. These parameters include a mix of general inorganic tests and metals. The general inorganic tests have many different collection and preservation requirements. It is important to pay close attention to the chart because of the variety of tests and their collection requirements. Bottle types, preservatives, and holding times vary. Be aware of the tests that you need and make sure you have the proper collection vessels before going into the field. The laboratory will assist you by supplying the necessary vessels. Refer to Chart **V - 2** Inorganic Chemistry: Sample Containers, Preservatives, and Holding Times

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State of Tennessee - Environmental Laboratories
PLEASE PRINT LEGIBLY

Safe Drinking Water Parameters

PROJECT/SITE NO.	PROJECT NAME
STATION NUMBER	COUNTY
DESCRIPTION	
STREAM MILE	DEPTH MATRIX
COLLECTED: DATE	TIME
SAMPLER'S NAME(printed)	
SAMPLING AGENCY	BILLING CODE
IF PRIORITY, DATE NEEDED	
SEND REPORT TO:	
CONTACT HAZARD	

*		SDWA Volatiles 524.2
		Benzene
	2993	Bromobenzene
	2430	Bromochloromethane
	2943	Bromodichloromethane
	2942	Bromoform
	2214	Bromomethane
	2422	n-Butylbenzene
	2428	sec-Butylbenzene
	2426	tert-Butylbenzene
		Carbon tetrachloride
		Chlorobenzene
	2216	Chloroethane
	2941	Chloroform
	2210	Chloromethane
	2965	2 Chlorotoluene
	2966	4-Chlorotoluene
	2944	Dibromochloromethane
	2408	Dibromomethane
		1,2-Dichlorobenzene
	2967	1,3-Dichlorobenzene
		1,4-Dichlorobenzene
	2212	Dichlorodifluoromethane
	2978	1,1-Dichloroethane
		1,2-Dichloroethane
		1,1-Dichloroethene
		Cis-1,2-dichloroethene
		Trans-1,2-dichloroethene
		1,2-Dichloropropane
	2412	1,3-Dichloropropane
	2416	2,2-Dichloropropane
	2410	1,1-Dichloropropene
	2413	Cis-1,3-dichloropropene
		Trans-1,3-Dichloropropene
		Ethylbenzene
	2994	Isopropylbenzene
	2936	4-Isopropyltoluene
		Methylene chloride
		Naphthalene

*		SDWA Volatiles (con't)
	2998	n-Propylbenzene
		Styrene
	2986	1,1,1,2-Tetrachloroethane
	2988	1,1,2,2-Tetrachloroethane
		Tetrachloroethene
		Toluene
	2420	1,2,3-Trichlorobenzene
		1,2,4 Trichlorobenzene
		1,1,1-Trichloroethane
		1,1,2-Trichloroethane
		Trichloroethene
	2218	Trichlorofluoromethane
	2414	1,2,3-Trichloropropane
	2416	1,2,4-Trimethylbenzene
	2424	1,3,5-Trimethylbenzene
		Vinyl chloride
		o-Xylene
		m-Xylene
		p-Xylene
*		**Cl Pesticides/PCBs 508**
	2356	Aldrin
	2959	Chlordane
	2364	Dieldrin
	2005	Endrin
	2065	Heptachlor
	2067	Heptachlor Epoxide
	2274	Hexachlorobenzene
	2010	Lindane
	2015	Methoxychlor
	2383	PCBs
	2077	Propachlor
	2020	Toxaphene
	2042	Hexachlorocyclopentadiene
		Hexachlorobutadiene

*		N/P Pesticides - 507
	2051	Alachlor
	2050	Atrazine
	2076	Butachlor
	2045	Metolachlor
	2595	Metribuzin
	2037	Simazine
*		**Cl Acids - 515.2**
	2110	2,4,5-TP (Silvex)
	2105	2,4-D
	2440	Dicamba
	2041	Dinoseb
	2326	Pentachlorophenol
	2040	Picloram
		Dalapon
*		**Carbamates - 531.1**
	2066	3-Hydroxycarbofuran
	2047	Aldicarb
	2044	Aldicarb Sulfone
	2043	Aldicarb Sulfoxide
	2021	Carbaryl
	2046	Carbofuran
	2022	Methomyl
	2038	Oxamyl
*		**PAHs - 550**
	2306	Benzo(a)pyrene
*		**Method 525**
	2035	Adipates
	2039	Phthalates
*		**Method 504**
	2931	DBCP
	2936	EDB
*		**Glyphosate - Method 547**
*		**Endothall - Method 548.1**
*		**Method 549.1**
	2032	Diquat
		Paraquat

*		Inorganics
		Primary Standards
	1074	Antimony
	1005	Arsenic
	1094	Asbestos
	1010	Barium
	1075	Beryllium
	1015	Cadmium
	1020	Chromium
	1024	Cyanide
	1025	Fluoride
	5000	Lead
	1035	Mercury
	1036	Nickel
	1041	Nitrite (as N)
	1040	Nitrate (as N)
	1038	Nitrate/Nitrite (Tot. as N)
	1045	Selenium
	1085	Thallium
*		**Secondary Standards**
	1002	Aluminum
	1017	Chloride
	1905	Color
	1022	Copper
	1919	Hardness-Calcium
	1028	Iron
	1997	Langlier Index
	1032	Manganese
	1089	MBAS
	1925	pH
	1050	Silver
	1052	Sodium
	1055	Sulfate
	1927	Total Alkalinity
	1930	Total Dissolved Solids
	0100	Turbidity
	1095	Zinc
*		**Env. Microbiology**
		coliform, fecal*
		coliform, total*
		strep, fecal*
*		**Other**

Laboratory Number

Branch Lab Number

Chain of Custody and Supplemental Information

Only one chain of custody form is required per sample set or point (if all collected at the same time)

1. Collected by — Date — Time
   Delivered to
   Date — Time
2. Received by — Date — Time
   Delivered to
   Date — Time
3. Received by — Date — Time
   Delivered to
   Date — Time
4. Received in Lab by — Date — Time
   Logged in by
   Date — Time

Additional Information

1. Approximate volume of sample
2. Nearest town or city
3. Others present at collection
4. Number of other samples collected at same time at this point
5. Field collection procedure, handling and/or preservation of this sample
6. Mode of transportation to lab
7. Sample sealed by
8. Date sample sealed
9. Remarks

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